

Global United Technology Services Co., Ltd.

Report No: GTSE11100084401

FCC REPORT (Bluetooth)

Applicant: DELTA NETWORK PTE. LTD.

Address of Applicant: 2 INTERNATIONAL BUSINESS PARK #01-23 STRATEGY,

THE SINGAPORE 609930

Equipment Under Test (EUT)

Product Name: MOBILE PHONE

Model No.: Mini GIO

Trade mark: **ALVO**

FCC ID: Z6PALVOMiniGIO

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2010

Date of sample receipt: Oct. 12, 2011

Date of Test: Oct.17-22, 2011

Date of report issued: Oct.22, 2011

Test Result: PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Stephen Guo Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	Oct.22, 2011	Original

Prepared by:	collar. He	Date:	Oct.22, 2011	
	Project Engineer			
Reviewed by:	Hams. Hu	Date:	Oct.22, 2011	
	Reviewer			

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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna Requirement	15.203/15.247 (c)	PASS
AC Power Line Conducted Emission	15.207	PASS
Conducted Peak Output Power	15.247 (b)(1)	PASS
20dB Occupied Bandwidth	15.247 (a)(1)	PASS
Carrier Frequencies Separation	15.247 (a)(1)	PASS
Hopping Channel Number	15.247 (a)(1)	PASS
Dwell Time	15.247 (a)(1)	PASS
Pseudorandom Frequency Hopping Sequence	15.247(b)(4)&TCB Exclusion List (7 July 2002)	PASS
Radiated Emission	15.205/15.209	PASS
Band Edge	15.247(d)	PASS

Remark:

Pass: The EUT complies with the essential requirements in the standard.

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5 General Information

5.1 Client Information

Applicant:	DELTA NETWORK PTE. LTD.
Address of Applicant:	2 INTERNATIONAL BUSINESS PARK #01-23 STRATEGY, THE SINGAPORE 609930
Manufacturer:	SHENZHEN UNITED TIME TECHNOLOGY CO.,LTD.
Address of Manufacturer:	Room 1001 Microprofit Building,6 Gaoxin south Road, High- Tech Park, Nanshan district ,Shenzhen, P.R. China
Factory:	HUIZHOU UNITED TIME TECHNOLOGY CO.,LTD.
Address of Factory:	2# songbai road, south zone, Cyber Park,huizhou,guangdong,

5.2 General Description of E.U.T.

Product Name:	MOBILE PHONE
Model No.:	Mini GIO
Trade mark:	ALVO
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation type:	GFSK, Pi/4QPSK, 8DPSK
Antenna Type:	Integral
Antenna gain:	2dBi
Power supply:	Type:Li-on Mini GIO-BAT 3.7V 800mAh
AC adapter:	Model: Mini GIO
	Input: AC 100-240V 50/60Hz
	Output: DC 5V 500mA

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Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
3	2404MHz	23	2424MHz	43	2444MHz	63	2464MHz
4	2405MHz	24	2425MHz	44	2445MHz	64	2465MHz
5	2406MHz	25	2426MHz	45	2446MHz	65	2466MHz
6	2407MHz	26	2427MHz	46	2447MHz	66	2467MHz
7	2408MHz	27	2428MHz	47	2448MHz	67	2468MHz
8	2409MHz	28	2429MHz	48	2449MHz	68	2469MHz
9	2410MHz	29	2430MHz	49	2450MHz	69	2470MHz
10	2411MHz	30	2431MHz	50	2451MHz	70	2471MHz
11	2412MHz	31	2432MHz	51	2452MHz	71	2472MHz
12	2413MHz	32	2433MHz	52	2453MHz	72	2473MHz
13	2414MHz	33	2434MHz	53	2454MHz	73	2474MHz
14	2415MHz	34	2435MHz	54	2455MHz	74	2475MHz
15	2416MHz	35	2436MHz	55	2456MHz	75	2476MHz
16	2417MHz	36	2437MHz	56	2457MHz	76	2477MHz
17	2418MHz	37	2438MHz	57	2458MHz	77	2478MHz
18	2419MHz	38	2439MHz	58	2459MHz	78	2479MHz
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2441MHz
The Highest channel	2480MHz

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5.3 Test environment and mode

Operating Environment:				
Temperature:	25.0 °C			
Humidity:	45 % RH			
Atmospheric Pressure:	1050 mbar			
Test mode:				
Bluetooth mode	Keep the EUT in communicating mode on Bluetooth function.			

5.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

■ FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, July 20, 2010.

Industry Canada (IC)

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-1.

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen,

China

Tel: 0755-27798480 Fax: 0755-27798960

5.6 Other Information Requested by the Customer

None.

Global United Technology Services Co., Ltd. 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China 518102

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5.7 Test Instruments list

Radia	Radiated Emission:					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 30 2011	Mar. 29 2012
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jul. 04 2011	Jul. 03 2012
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Feb. 26 2011	Feb. 25 2012
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 30 2011	June 29 2012
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 30 2011	Mar. 29 2012
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	Apr. 01 2011	Mar. 31 2012
9	Coaxial Cable	GTS	N/A	GTS211	Apr. 01 2011	Mar. 31 2012
9	Coaxial cable	GTS	N/A	GTS210	Apr. 01 2011	Mar. 31 2012
11	Coaxial Cable	GTS	N/A	GTS212	Apr. 01 2011	Mar. 31 2012
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jul. 04 2011	Jul. 03 2012
13	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jul. 04 2011	Jul. 03 2012
14	Pre-amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Apr. 01 2011	Mar. 31 2012
15	Band filter	Amindeon	82346	GTS219	Apr. 01 2011	Mar. 31 2012
16	Universal radio communication tester	Rohde & Schwarz	CMU200	GTS235	May 11 2011	May 11 2012
17	Signal Generator	Rohde & Schwarz	SML03	GTS236	May 11 2011	May 11 2012
18	Temp. Humidity/ Barometer	Oregon Scientific	BA-888	GTS248	May 11 2011	May 11 2012
19	D.C. Power Supply	Instek	PS-3030	GTS232	NA	NA
20	Splitter	Agilent	11636B	GTS237	May 11 2011	May 11 2012

Condu	Conducted Emission:					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS252	Jul. 04 2011	Jul. 03 2012
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jul. 04 2011	Jul. 03 2012
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jul. 04 2011	Jul. 03 2012
4	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jul. 04 2011	Jul. 03 2012
5	Coaxial Cable	GTS	N/A	GTS227	Apr. 01 2011	Mar. 31 2012
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A

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6 Test results and Measurement Data

6.1 Antenna requirement:

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

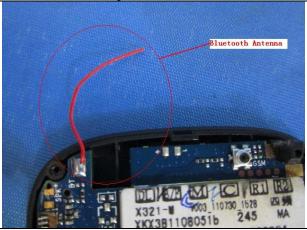
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The antenna is integrated metal foil antenna. The best case gain of the antenna is 2dBi.



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6.2 Conducted Emissions

Test Requirement:	guirement: FCC Part15 C Section 15.207				
Test Method:	ANSI C63.4: 2009				
Test Frequency Range:	150KHz to 30MHz				
Class / Severity:	Class B				
•	RBW=9KHz, VBW=30KHz				
Receiver setup:	RBW=9RHZ, VBW=30RHZ	1	ID 10		
Limit:	Frequency range (MHz)	Limit (c			
	0.15-0.5	Quasi-peak 66 to 56*	Average 56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	* Decreases with the logarithm	n of the frequency.			
Test procedure	The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2009 on conducted measurement.				
Test setup:	Reference Plane LISN 40cm 80cm Filter AC power Equipment Test table/Insulation plane Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m				
Test Instruments:	Refer to section 5.7 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				

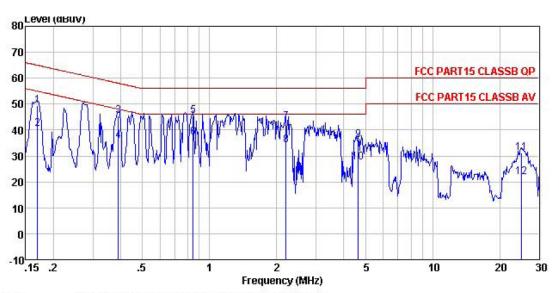
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Project No.: GTSE111000844RF

Measurement Result:

Line:



: FCC PART15 CLASSB QP LISN(2011) LINE Condition

Job No. Test Mode : 844RF

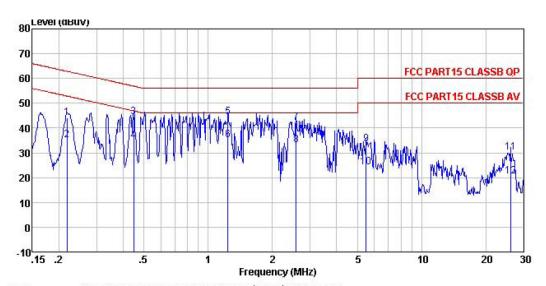
: Bluetooth mode

Test Engineer: Osccar

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
-	MHz	dBuV	dB	dB	dBu₹	dBuV	dB	
1	0.169	48.79	0.67	0.10	49.56	64.99	-15.43	QP
2	0.169	39.77	0.67	0.10	40.54	54.99	-14.45	Average
3	0.389	44.67	0.58	0.10	45.35	58.08	-12.73	QP
4	0.389	35.19	0.58	0.10	35.87	48.08	-12.21	Average
2 3 4 5 6 7 8 9	0.844	45.01	0.50	0.10	45.61	56.00	-10.39	QP
6	0.844	36.49	0.50	0.10	37.09	46.00	-8.91	Average
7	2.201	42.81	0.39	0.10	43.30	56.00	-12.70	QP
8	2.201	33.67	0.39	0.10	34.16	46.00	-11.84	Average
9	4.647	35.82	0.31	0.10	36.23	56.00	-19.77	QP
10	4.647	26.97	0.31	0.10	27.38	46.00	-18.62	Average
11	24.922	30.93	0.12	0.21	31.26	60.00	-28.74	QP
12	24.922	21.59	0.12	0.21	21.92	50.00	-28.08	Average



Neutral:



Condition : FCC PART15 CLASSB QP LISN(2011) NEUTRAL

Job No. : 844RF

Test Mode : Bluetooth mode

Test Engineer: Osccar

ics(i	Freq	Read Level		Cable Loss		Limit Line	Over Limit	Remark
-	MHz	dBuV	dB	dB	dBu√	dBuV	dB	
1	0.219	43.24	0.65	0.10	43.99	62.88	-18.89	QP
2 3 4 5 6 7 8 9	0.219	34.56	0.65	0.10	35.31	52.88	-17.57	Average
3	0.447	43.94	0.57	0.10	44.61	56.93	-12.32	QP
4	0.447	34.29	0.57	0.10	34.96	46.93	-11.97	Average
5	1.236	43.90	0.45	0.10	44.45	56.00	-11.55	QP
6	1.236	34.59	0.45	0.10	35.14	46.00	-10.86	Average
7	2.581	41.64	0.37	0.10	42.11	56.00	-13.89	QP
8	2.581	32.56	0.37	0.10	33.03	46.00	-12.97	Average
9	5.505	32.97	0.29	0.11	33.37	60.00	-26.63	QP
10	5.505	23.66	0.29	0.11	24.06			Average
11	26.139	29.89	0.12	0.21	30.22	60.00	-29.78	QP
12	26, 139	20, 32	0.12	0.21	20, 65	50.00	-29.35	Average

Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

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6.3 Conducted Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)		
Test Method:	ANSI C63.4:2009 and KDB DA00-705		
Receiver setup:	RBW=3MHz, VBW=3MHz, Detector=Peak		
Limit:	30dBm		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.7 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

Measurement Data

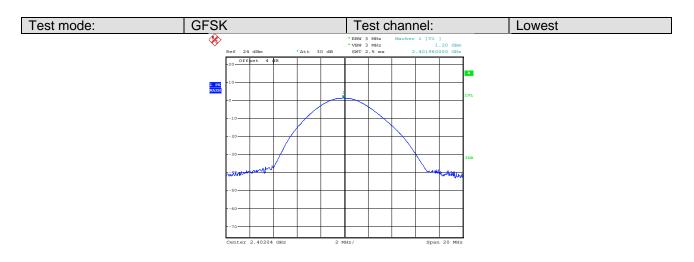
modean ement Bata	Measurement Data				
GFSK mode					
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	1.20	30.00	Pass		
Middle	1.10	30.00	Pass		
Highest	1.44	30.00	Pass		
	Pi/4QPSK m	ode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	0.56	30.00	Pass		
Middle	0.42	30.00	Pass		
Highest	0.72	30.00	Pass		
	8DPSK mod	de			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result		
Lowest	0.53	30.00	Pass		
Middle	0.41	30.00	Pass		
Highest	0.71	30.00	Pass		

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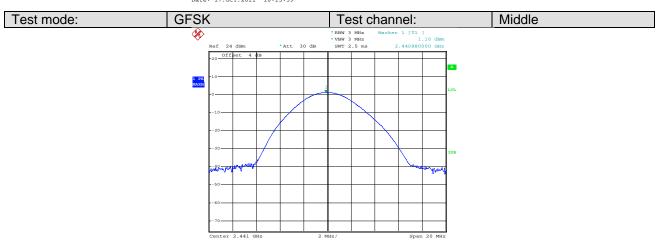
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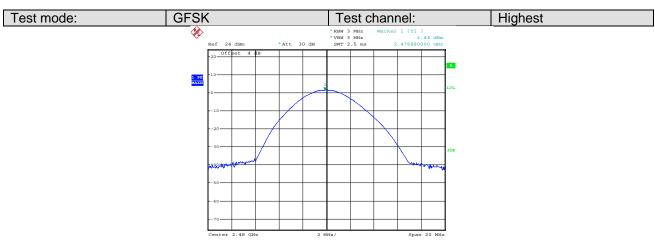
Test plot as follows:



Date: 17.0CT.2011 10:15:59



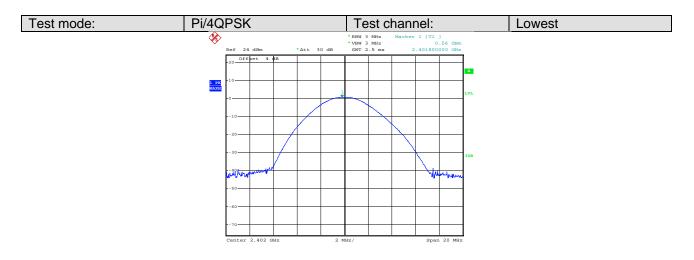
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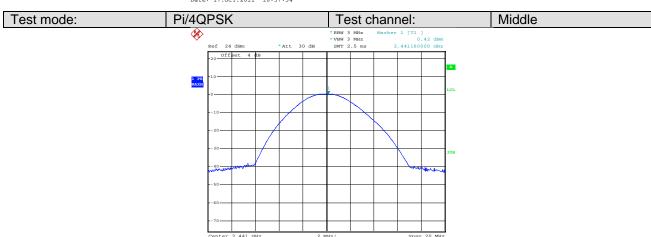
Date: 17.0CT.2011 10:31:07

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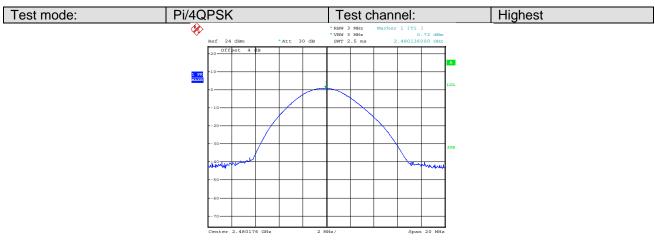




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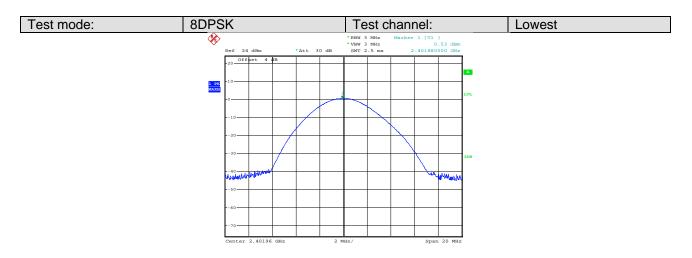


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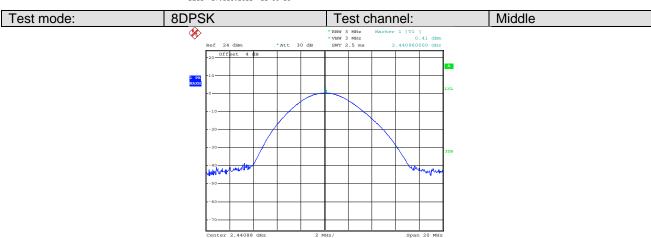


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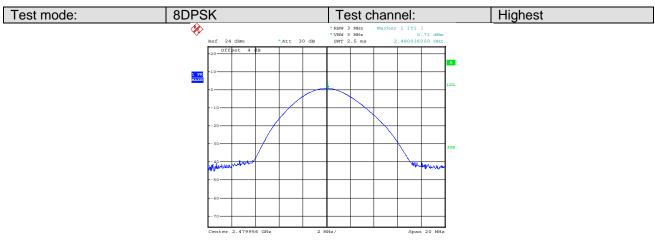




Date: 17.0CT.2011 11:06:18



Date: 17.0CT.2011 11:16:06



Date: 17.0CT.2011 11:23:39



6.4 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)		
Test Method:	ANSI C63.4:2009 and KDB DA00-705		
Receiver setup:	RBW=30KHz, VBW=100KHz,detector=Peak		
Limit:	NA		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.7 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

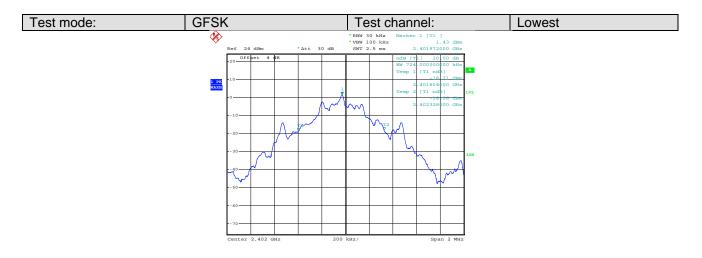
Measurement Data				
	20dB Occupy Bandwidth (KHz)			
Test channel	GFSK	Pi/4QPSK	8DPSK	
Lowest	724	1116	1200	
Middle	720	1116	1204	
Highest	716	1116	1204	

Test plot as follows:

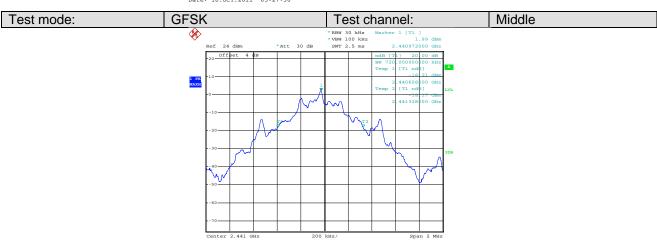
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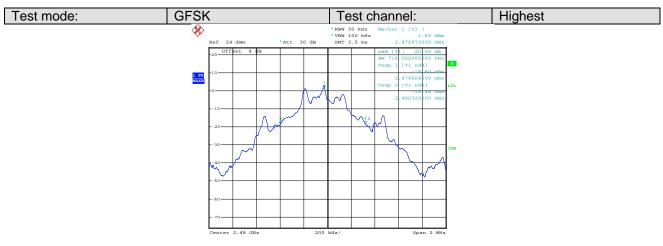




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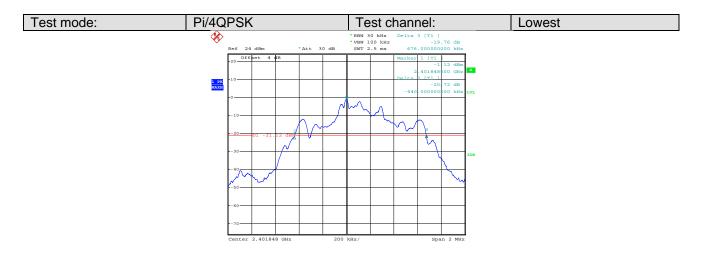


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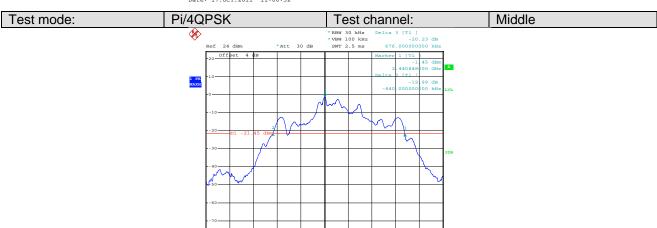


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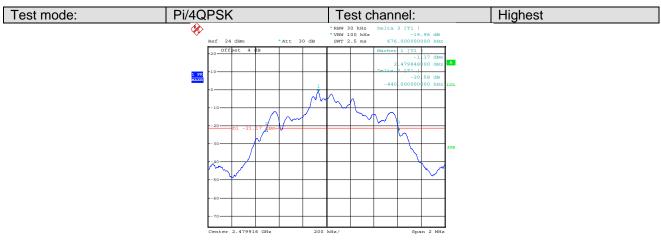




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Date: 17.0CT.2011 10:53:43



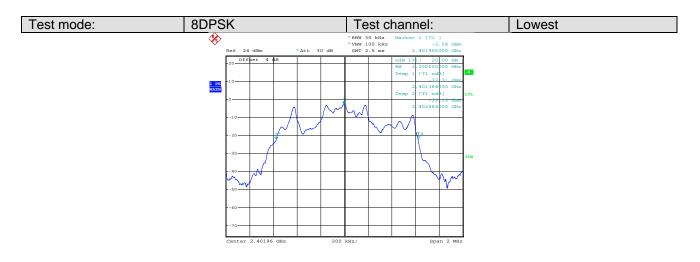
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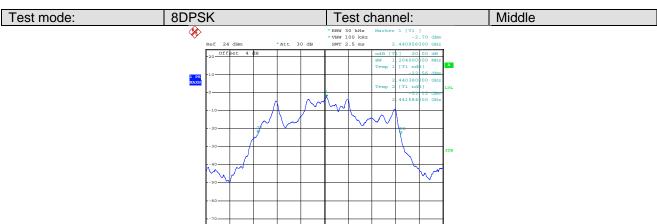
2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District,

Date: 17.0CT.2011 10:41:49

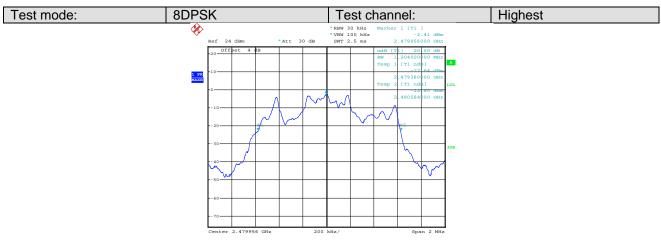




Date: 17.0CT.2011 11:06:57



Date: 17.0CT.2011 11:17:03



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Date: 17.0CT.2011 11:24:54



6.5 Carrier Frequencies Separation

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)		
Test Method:	ANSI C63.4:2009 and KDB DA00-705		
Receiver setup:	RBW=100KHz, VBW=300KHz, detector=Peak		
Limit:	0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater)		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 5.7 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

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Project No.: GTSE111000844RF

Measurement Data					
	GFSK mode				
Test channel	Carrier Frequencies Separation (KHz)	Limit (KHz)	Result		
Lowest	1004	482.7	Pass		
Middle	1012	482.7	Pass		
Highest	1000	482.7	Pass		
	Pi/4QPSK m	ode			
Test channel	Carrier Frequencies Separation (KHz)	Limit (KHz)	Result		
Lowest	1000	746.7	Pass		
Middle	1000	746.7	Pass		
Highest	1004	746.7	Pass		
	8DPSK mo	de			
Test channel	Carrier Frequencies Separation (KHz)	Limit (KHz)	Result		
Lowest	1000	789.3	Pass		
Middle	1000	789.3	Pass		
Highest	1004	789.3	Pass		

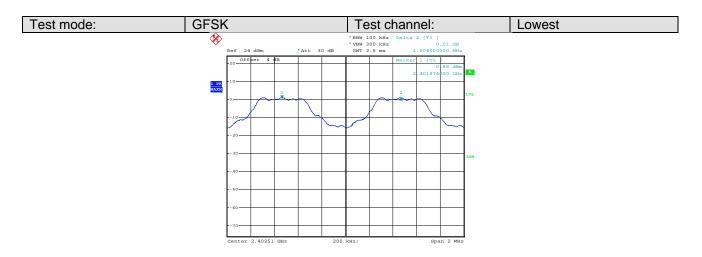
Note: According to section 6.4,

Mode	20dB bandwidth (KHz)	Limit (KHz)
Mode	(worse case)	(Carrier Frequencies Separation)
GFSK	724	482.7
PI/4QPSK	1116	746.7
8DPSK	1204	789.3

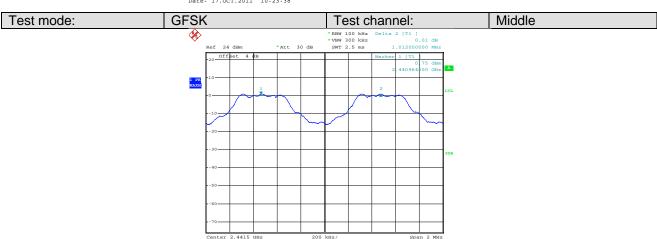
Test plot as follows:

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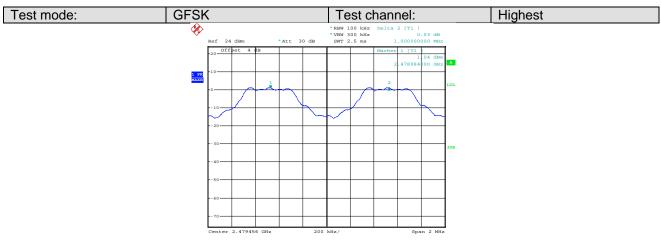




Date: 17.0CT.2011 10:23:38



Date: 17.0CT.2011 10:29:37



Global United Technology Services Co., Ltd.

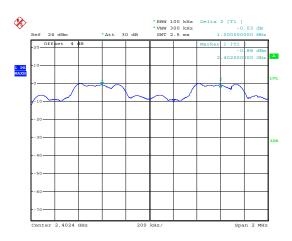
2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China 518102

Date: 17.0CT.2011 10:38:18

Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

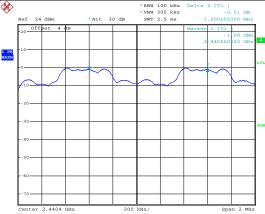


ſ	Test mode:	Pi/4QPSK	Test channel:	Lowest



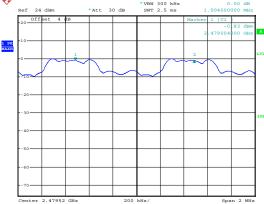
Date: 17.0CT.2011 11:05:29

Test mode: Pi/4QPSK Test channel: Middle



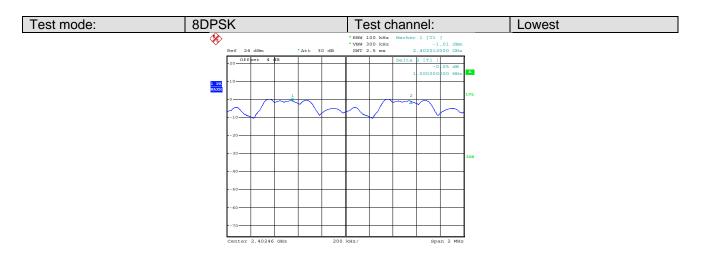
Date: 17.0CT.2011 10:57:05

Test mode: Pi/4QPSK Test channel: Highest

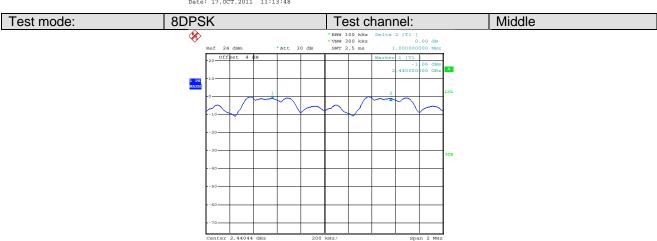


Date: 17.0CT.2011 10:47:56

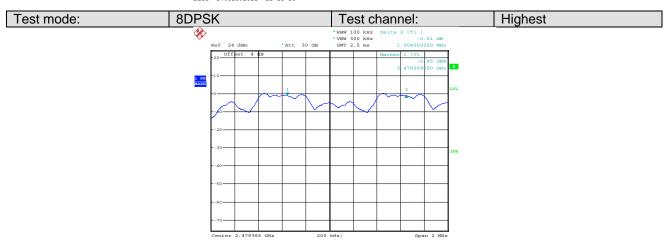




Date: 17.0CT.2011 11:13:48



Date: 17.0CT.2011 11:15:16



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Date: 17.0CT.2011 11:31:14

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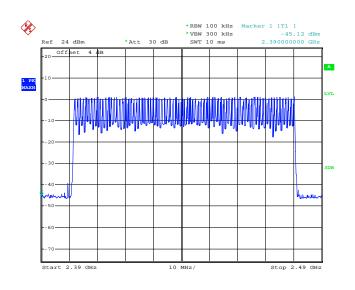


6.6 Hopping Channel Number

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)			
Test Method:	ANSI C63.4:2009 and KDB DA00-705			
Receiver setup:	RBW=100KHz, VBW=300KHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak			
Limit:	15channels			
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Test Instruments:	Refer to section 5.7 for details			
Test mode:	Refer to section 5.3 for details			
Test results:	Pass			

Measurement Data		
Mode	Hopping channel numbers	Limit
GFSK, Pi/4QPSK, 8DPSK	79	15

Test plot as follows



Date: 17.0CT.2011 11:39:35

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6.7 Dwell Time

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)				
Test Method:	ANSI C63.4:2009 and KDB DA00-705				
Receiver setup:	RBW=1MHz, VBW=1MHz, Span=0Hz, Detector=Peak				
Limit:	0.4 Second				
Test mode:	Hopping transmitting with all kind of modulation.				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.7 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				

Measurement Data			
Mode	Packet	Dwell time (second)	Limit (second)
	DH1	0.1280	0.4
GFSK	DH3	0.2566	0.4
	DH5	0.3123	0.4
	2-DH1	0.1280	0.4
Pi/4QPSK	2-DH3	0.2566	0.4
	2-DH5	0.3123	0.4
	3-DH1	0.1280	0.4
8DPSK	3-DH3	0.2566	0.4
	3-DH5	0.3123	0.4

The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s

The lowest channel (2402MHz), middle channel (2441MHz), highest channel (2480MHz) as below

DH1 time slot=0.400(ms)*(1600/ (2*79))*31.6=128.00ms

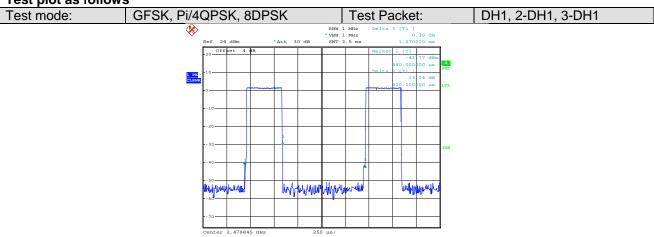
DH3 time slot=1.660(ms)*(1600/ (4*79))*31.6=256.60ms

DH5 time slot=2.928(ms)*(1600/ (6*79))*31.6=312.32ms

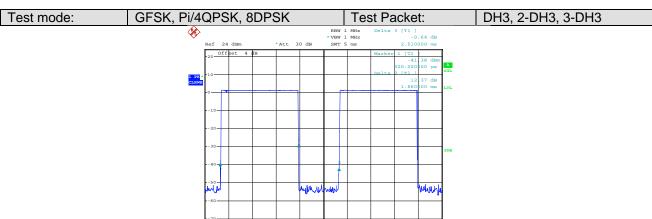
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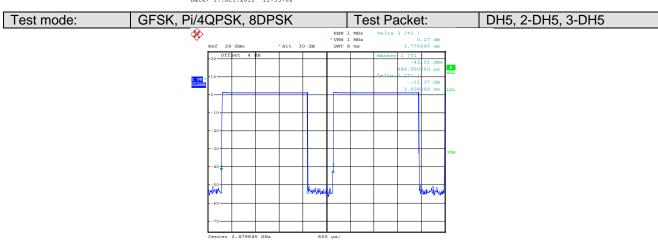
Test plot as follows



Date: 17.0CT.2011 11:32:20



Date: 17.0CT.2011 11:33:02



Date: 17.0CT.2011 11:33:47



6.8 Band Edge

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.4:2009 and KDB DA00-705				
Receiver setup:	RBW=100KHz, VBW=300KHz, Detector=Peak				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.				
Test setup:					
	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.7 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				
Remark:					

Remark

During test the item, Pre-scan the GFSK, Pi/4QPSK, 8DPSK modulation, and found the GFSK modulation which it is worse case.

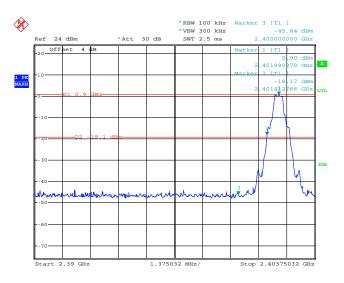
Test plot as follows:

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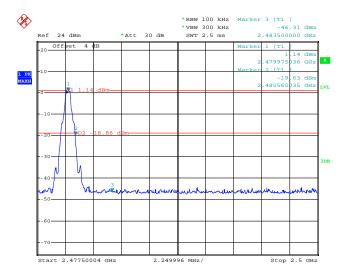
Hopping off:

Worse case mode:	GFSK	Test channel:	Lowest



Date: 17.0CT.2011 10:19:25

Worse case mode: GFSK Test channel: Highest

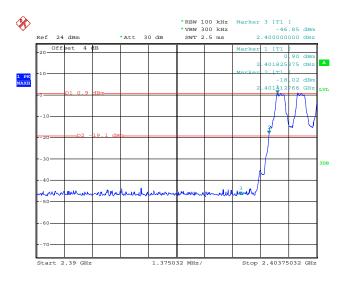


Date: 17.0CT.2011 10:35:04



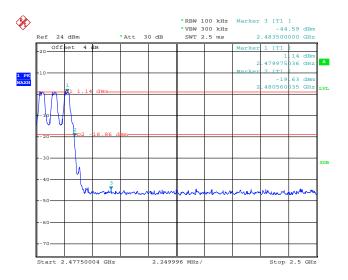
Hopping on:

Worse case mode:	GFSK	Test channel:	Lowest



Date: 17.0CT.2011 10:20:18

Worse case mode: GFSK Test channel: Highest



Date: 17.0CT.2011 10:35:54

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6.9 RF Antenna Conducted spurious emissions

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.4:2009 and KDB DA00-705				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.				
Test setup:					
	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
Test Instruments:	Refer to section 5.7 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				

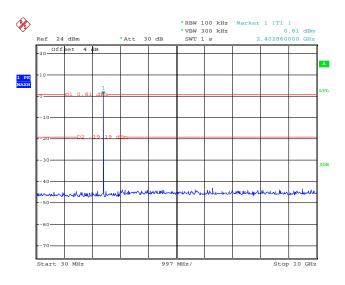
Remark:

During test the item, Pre-scan the GFSK, Pi/4QPSK, 8DPSK modulation, and found the GFSK modulation which it is worse case.

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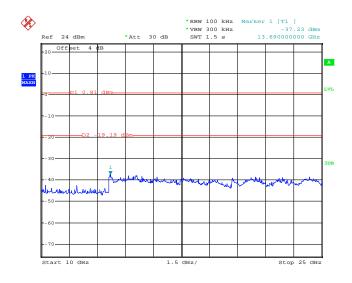


Worse case mode:	GFSK	Test channel:	Lowest



Date: 17.OCT.2011 10:21:17

30MHz~10GHz



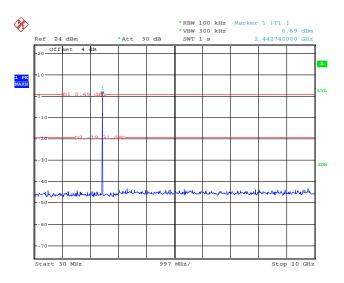
Date: 17.OCT.2011 10:21:36

10GHz~25GHz

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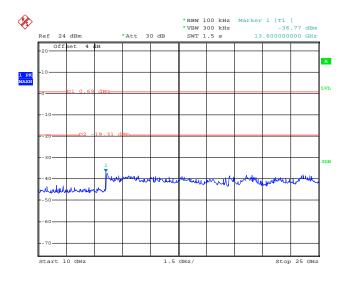


Worse case mode:	GFSK	Test channel:	Middle



Date: 17.OCT.2011 10:27:39

30MHz~10GHz



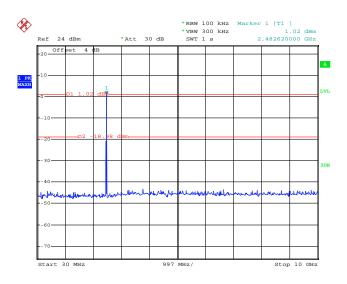
Date: 17.0CT.2011 10:27:53

10GHz~25GHz

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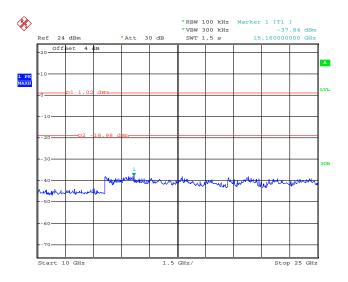


Worse case mode:	GFSK	Test channel:	Highest
TTOIGG GAGG IIIGAG.	0. 0.	i oot onamion	i ligiloot



Date: 17.0CT.2011 10:36:25

30MHz~10GHz



Date: 17.0CT.2011 10:36:40

10GHz~25GHz

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6.10 Pseudorandom Frequency Hopping Sequence

Test Requirement: FCC Part15 C Section 15.247 (a)(1) requirement:

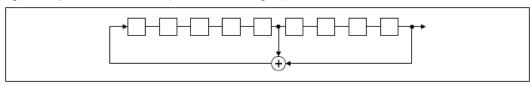
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively. Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence

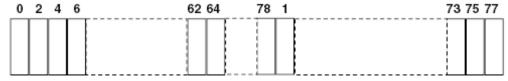
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: 2⁹-1 = 511 bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.

The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

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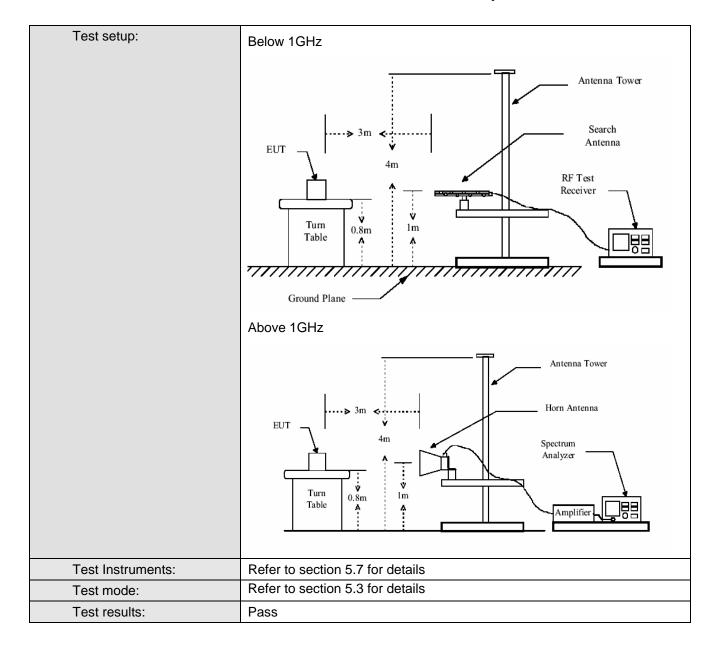
6.11 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.209 and 15.205							
Test Method:	ANSI C63.4: 2009							
Test Frequency Range:	30MHz to 25GHz							
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Receiver setup:								
ricooiver cotup.	Frequency	Detector	RBW	VBW	Remark			
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value			
	Above 1GHz Peak		1MHz	3MHz	Peak Value			
	7,0000 10112	Average	1MHz	10Hz	Average Value			
Limit:	Frequency Limit (dPu)//m @2m) Remark							
	Frequency Limit (dBuV/m @3m) Remark							
	30MHz-88MHz 40.0 Quasi-peak Value							
	88MHz-216MHz 43.5 Quasi-peak Value 216MHz-960MHz 46.0 Quasi-peak Value							
	960MHz-1GHz 46.0 Quasi-peak Value 960MHz-1GHz 54.0 Quasi-peak Value							
	Security 2015 S4.0 Quasi-peak value S4.0 Average Value							
	ADDVA 11.4H7							
Test Procedure:								
	74.0 Peak Value							

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Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

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6.11.1 Transmitter emission below1GHz

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
32.98	46.58	14.76	0.61	32.23	29.72	40.00	-10.28	Vertical
53.13	44.44	14.87	0.68	31.99	28.00	40.00	-12.00	Vertical
78.14	48.26	11.33	0.93	31.83	28.69	40.00	-11.31	Vertical
167.82	39.53	9.73	1.62	32.08	18.80	43.50	-24.70	Vertical
490.75	35.44	17.10	2.39	31.66	23.27	46.00	-22.73	Vertical
909.67	35.05	24.35	3.35	31.47	31.28	46.00	-14.72	Vertical
35.75	36.71	11.64	0.63	32.20	16.78	40.00	-23.22	Horizontal
55.61	43.51	13.10	0.69	31.97	25.33	40.00	-14.67	Horizontal
82.94	48.31	8.03	0.99	31.79	25.54	40.00	-14.46	Horizontal
153.20	40.83	10.34	1.53	32.00	20.70	43.50	-22.80	Horizontal
487.32	36.24	19.51	2.38	31.71	26.42	46.00	-19.58	Horizontal
912.86	35.57	25.18	3.35	31.47	32.63	46.00	-13.37	Horizontal

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6.11.2 Transmitter emission above 1GHz

Worse case n	node:	GFSK	Test c	hannel:	Lowest	Lowest Remark:		Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	9.36	34.25	41.53	50.32	52.40	74.00	-21.60	Vertical
7206.00	11.42	35.84	39.48	45.38	53.16	74.00	-20.84	Vertical
9608.00	13.39	37.99	37.56	42.03	55.85	74.00	-18.15	Vertical
12010.00	16.45	39.10	39.09	40.18	56.64	74.00	-17.36	Vertical
14412.00						74.00		Vertical
16814.00						74.00		Vertical
4804.00	9.36	34.25	41.53	49.00	51.08	74.00	-22.92	Horizontal
7206.00	11.42	35.84	39.48	44.08	51.86	74.00	-22.14	Horizontal
9608.00	13.39	37.99	37.56	40.62	54.44	74.00	-19.56	Horizontal
12010.00	16.45	39.10	39.09	38.70	55.16	74.00	-18.84	Horizontal
14412.00						74.00		Horizontal
16814.00						74.00		Horizontal

Worse case r	node: (GFSK	Test c	hannel:	Lowest	Remark	(:	Average
Frequency (MHz)	Cable Loss (dB	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	9.36	34.25	41.53	29.79	31.87	54.00	-22.13	Vertical
7206.00	11.42	35.84	39.48	26.50	34.28	54.00	-19.72	Vertical
9608.00	13.39	37.99	37.56	24.68	38.50	54.00	-15.50	Vertical
12010.00	16.45	39.10	39.09	24.30	40.76	54.00	-13.24	Vertical
14412.00						54.00		Vertical
16814.00						54.00		Vertical
4804.00	9.36	34.25	41.53	28.32	30.40	54.00	-23.60	Horizontal
7206.00	11.42	35.84	39.48	25.07	32.85	54.00	-21.15	Horizontal
9608.00	13.39	37.99	37.56	23.11	36.93	54.00	-17.07	Horizontal
12010.00	16.45	39.10	39.09	22.63	39.09	54.00	-14.91	Horizontal
14412.00						54.00		Horizontal
16814.00			_			54.00		Horizontal

Remark

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[&]quot;---" means that the emission level is too low to be measured



Worse case	mode: GF	SK	Test	channel:	Middle	Remar	k:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	10.57	34.35	40.33	47.19	51.78	74.00	-22.22	Vertical
7323.00	11.85	36.12	39.18	44.44	53.23	74.00	-20.77	Vertical
9764.00	13.89	38.03	37.94	40.58	54.56	74.00	-19.44	Vertical
12205.00	17.95	39.23	39.30	37.95	55.83	74.00	-18.17	Vertical
14646.00						74.00		Vertical
17087.00						74.00		Vertical
4882.00	10.57	34.35	40.33	46.21	50.80	74.00	-23.20	Horizontal
7323.00	11.85	36.12	39.18	43.62	52.41	74.00	-21.59	Horizontal
9764.00	13.89	38.03	37.94	39.79	53.77	74.00	-20.23	Horizontal
12205.00	17.95	39.23	39.30	38.23	56.11	74.00	-17.89	Horizontal
14646.00						74.00		Horizontal
17087.00						74.00		Horizontal

Over Limit (dB)	polarization
Limit	polorization
(GD)	polarization
-20.31	Vertical
-18.65	Vertical
-15.16	Vertical
-13.41	Vertical
	Vertical
_	Vertical
-21.15	Horizontal
-19.36	Horizontal
-15.87	Horizontal
-14.08	Horizontal
	Horizontal
	Horizontal
-	21.15 19.36 15.87

Remark

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[&]quot;---" means that the emission level is too low to be measured



Report No: GTSE11100084401

Worse case	mode: GF	SK	Test	channel:	Highest	Remar	k:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	10.73	34.45	40.18	44.88	49.88	74.00	-24.12	Vertical
7440.00	12.35	36.68	38.85	43.66	53.84	74.00	-20.16	Vertical
9920.00	14.24	38.08	37.78	40.55	55.09	74.00	-18.91	Vertical
12400.00	17.55	39.34	37.48	37.27	56.68	74.00	-17.32	Vertical
14880.00						74.00		Vertical
17360.00						74.00		Vertical
4960.00	10.73	34.45	40.18	43.70	48.70	74.00	-25.30	Horizontal
7440.00	12.35	36.68	38.85	42.50	52.68	74.00	-21.32	Horizontal
9920.00	14.24	38.08	37.78	39.28	53.82	74.00	-20.18	Horizontal
12400.00	17.55	39.34	37.48	37.62	57.03	74.00	-16.97	Horizontal
14880.00						74.00		Horizontal
17360.00						74.00		Horizontal

Worse case	mode: GF	SK	Test	channel:	Highest	Remar	k:	Average
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	10.43	34.45	41.03	31.74	35.59	54.00	-18.41	Vertical
7440.00	12.72	37.37	40.01	26.29	36.37	54.00	-17.63	Vertical
9920.00	14.24	38.08	37.78	24.83	39.37	54.00	-14.63	Vertical
12400.00	17.55	39.34	37.48	22.27	41.68	54.00	-12.32	Vertical
14880.00						54.00		Vertical
17360.00						54.00		Vertical
4960.00	10.43	34.45	41.03	30.60	34.45	54.00	-19.55	Horizontal
7440.00	12.72	37.37	40.01	24.94	35.02	54.00	-18.98	Horizontal
9920.00	14.24	38.08	37.78	23.40	37.94	54.00	-16.06	Horizontal
12400.00	17.55	39.34	37.48	20.72	40.13	54.00	-13.87	Horizontal
14880.00						54.00		Horizontal
17360.00						54.00		Horizontal

Remark

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[&]quot;---" means that the emission level is too low to be measured



6.11.3 Bar	nd edge (I	Radiated	Emission)					
Test mode:	Trans	mitting	Test channe	el: Lowe	est	Remark:	Pea	ak
				'			,	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	6.02	29.76	39.75	51.29	47.32	74.00	-26.68	Horizontal
2400.00	6.22	30.03	38.87	52.94	50.32	74.00	-23.68	Horizontal
2390.00	6.02	29.76	39.75	52.65	48.68	74.00	-25.32	Vertical
2400.00	6.22	30.03	38.87	54.27	51.65	74.00	-22.35	Vertical
Test mode:	Trans	mitting	Test channe	el: Lowe	est	Remark:	Remark: Ave	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	6.02	29.76	39.75	30.78	26.81	54.00	-27.19	Horizontal
2400.00	6.22	30.03	38.87	34.28	31.66	54.00	-22.34	Horizontal
2390.00	6.02	29.76	39.75	32.04	28.07	54.00	-25.93	Vertical
2400.00	6.22	30.03	38.87	35.51	32.89	54.00	-21.11	Vertical
Test mode:	Trans	mitting	Test channe	el: High	est	Remark:	Pea	ak
				<u>'</u>		1	<u>'</u>	
Frequency	Cable	Antenna	Preamp Factor	Read Level	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
(MHz)	Loss (dB)	Factor (dB/m)	(dB)	(dBuV)	(aba v/III)	((uD)	
			(dB) 39.53	53.50	50.63	74.00	-23.37	Horizontal
(MHz)	(dB)	(dB/m)	` ,	` ,	` ,	` ,	` '	
(MHz) 2483.50	(dB) 6.34	(dB/m) 30.32	39.53	53.50	50.63	74.00	-23.37	
(MHz) 2483.50 2500.00	(dB) 6.34 6.36	(dB/m) 30.32 30.37	39.53 39.65	53.50 50.27	50.63 47.35	74.00 74.00	-23.37 -26.65	Horizontal Horizontal Vertical
(MHz) 2483.50 2500.00 2483.50 2500.00	(dB) 6.34 6.36 6.34 6.36	(dB/m) 30.32 30.37 30.32	39.53 39.65 39.53	53.50 50.27 54.72 51.46	50.63 47.35 51.85 48.54	74.00 74.00 74.00	-23.37 -26.65 -22.15 -25.46	Horizontal Vertical
(MHz) 2483.50 2500.00 2483.50 2500.00	(dB) 6.34 6.36 6.34 6.36	(dB/m) 30.32 30.37 30.32 30.37	39.53 39.65 39.53 39.65	53.50 50.27 54.72 51.46	50.63 47.35 51.85 48.54	74.00 74.00 74.00 74.00	-23.37 -26.65 -22.15 -25.46	Horizontal Vertical Vertical
(MHz) 2483.50 2500.00 2483.50 2500.00	(dB) 6.34 6.36 6.34 6.36 Trans	(dB/m) 30.32 30.37 30.32 30.37 mitting Antenna Factor	39.53 39.65 39.53 39.65	53.50 50.27 54.72 51.46	50.63 47.35 51.85 48.54 est	74.00 74.00 74.00 74.00	-23.37 -26.65 -22.15 -25.46	Horizontal Vertical Vertical erage
(MHz) 2483.50 2500.00 2483.50 2500.00 Test mode:	(dB) 6.34 6.36 6.34 6.36 Trans	(dB/m) 30.32 30.37 30.32 30.37 mitting	39.53 39.65 39.53 39.65 Test channe	53.50 50.27 54.72 51.46 el: High	50.63 47.35 51.85 48.54 est	74.00 74.00 74.00 74.00 Remark:	-23.37 -26.65 -22.15 -25.46 Ave	Horizontal Vertical Vertical erage it Polarization
(MHz) 2483.50 2500.00 2483.50 2500.00 Test mode: Frequency (MHz) 2483.50	(dB) 6.34 6.36 6.34 6.36 Trans Cable Loss (dB) 6.34	(dB/m) 30.32 30.37 30.32 30.37 mitting Antenna Factor (dB/m) 30.32	39.53 39.65 39.53 39.65 Test channe Preamp Factor (dB) 39.53	53.50 50.27 54.72 51.46 el: High Read Level (dBuV) 35.89	50.63 47.35 51.85 48.54 est Level (dBuV/m) 33.02	74.00 74.00 74.00 74.00 Remark: Limit Line (dBuV/m) 54.00	-23.37 -26.65 -22.15 -25.46 Ave	Horizontal Vertical Vertical erage it Polarization
(MHz) 2483.50 2500.00 2483.50 2500.00 Test mode: Frequency (MHz)	(dB) 6.34 6.36 6.34 6.36 Trans Cable Loss (dB)	(dB/m) 30.32 30.37 30.32 30.37 mitting Antenna Factor (dB/m)	39.53 39.65 39.53 39.65 Test channel	53.50 50.27 54.72 51.46 el: High Read Level (dBuV)	50.63 47.35 51.85 48.54 est Level (dBuV/m)	74.00 74.00 74.00 74.00 Remark:	-23.37 -26.65 -22.15 -25.46 Ave	Horizontal Vertical Vertical erage

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